Marshall Blatz

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Education

University of Iowa – Iowa City, IA   **August 2019 - May 2023**
B.S.E. in Computer Science and Engineering   GPA: 3.49/4.0

Work Experience

Iowa Reading Research Center – Iowa City, IA   **November 2021 - Present**
Software Developer
- Interfaced directly with clients to gain technical clarity for quick issue resolution.
- Created web applications with React and Express, notably a platform enabling researchers to evaluate K-12 students' reading comprehension. Currently, it serves over 12,000 students across Iowa.
- Developed a data consolidation tool, enabling administrators to create custom reports, and resulting in 60% time saved.
- Built a single sign-on service for our app suite, reducing daily student sign-on time by more than 50% and maximizing the time teachers could spend on instruction.
- Designed and implemented several MySQL database schemas for multiple projects, ensuring effective data management.

RSM US – Cedar Rapids, IA   **May 2022 - August 2022**
Application Development Intern
- Managed multiple client projects, building ERP extensions for customers using the platform's proprietary language. Notably, developed a data import tool, resulting in streamlining credit memo creation.
- Worked with peers and supervisors in code review sessions, ensuring code quality and adherence to best practices.

Personal Projects

Jookbox: A Playlist Sharing Web Application (React, Express, Prisma)   **January 2023 – June 2023**
GitHub: https://www.github.com/moorshall/jookbox
- Architected a full-stack social media application capable of playlist sharing and music discovery.
- Integrated the Spotify and Apple Music APIs to enable account linking, playlist uploading, and playlist saving.
- Developed a custom feature to convert Apple Music playlists to Spotify playlists and vice versa.
- Implemented secure authentication mechanisms within the Express backend, utilizing JWTs to safeguard user credentials and interactions with streaming services.

Amplo: A Habit Tracking Dashboard (React, Firebase)   **July 2023**
GitHub: https://www.github.com/moorshall/amplo
- Developed a habit tracker, displaying analysis and consistency metrics.
- Created pleasant interfaces for account creation, habit addition, goal setting, real-time tracking.

Leadership Experience

Hack Iowa Student Club – Iowa City, IA   **December 2020 – September 2021**
Treasurer
- Led biweekly meetings where CS concepts were taught to students with all levels of experience.
- Boosted the University of Iowa attendance to nearby Midwest hackathons by 30% through organizing transportation options.

Phi Gamma Delta – Iowa City, IA   **January 2020 – January 2021**
Head of Recruitment
- Led a team of 6 members in planning and executing all recruitment events over a course of two semesters.
- Increased new member numbers and retainment by more than 50% compared to the previous year.

Skills

- JavaScript/TypeScript (React, Node.js, Jest)
- HTML/CSS (Tailwind, Bootstrap)
- PHP (Composer)
- Java (Spring Boot)
- Git

- NoSQL (Firebase Firestore)
- Google Cloud Platform
- SQL (MySQL)
- REST APIs
- Microsoft Business Central (AL)